

Audit - EU DK MAL Code

PPG VIKOTE 56 ORANGE 3149

Denmark MAL Code

Audit - MAL Code

EU Denmark MAL Code:- 5-3

The MAL Code calculations are performed with product and component data.

Product is a Liquid

PPG VIKOTE 56 ORANGE 3149 - Components considered for the MAL Code calculation. {Denmark MAL Code}

Hydrocarbons, C9, aromatics (41.553149%)

CAS: 64742-95-6

Density: 0.879

Molecular Weight: 123

Boiling Point: 172.5

Vapour Pressure: 1.5

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 58. Limit: 0

FAD entered: 1; Lower Limit: 0.1

FAD 1 Quotient = 415.531

acrylic resin (27.90159%)

CAS: SUB110964

Density: 1.1

No LBL Factor entered or estimated from CAS Number or Boiling Point.

No MAL Factor calculated.

FAD: 1. (Default)

FAD 1 Quotient = 27901.59

XYLENES (14.177612215%)

Organic Solvent.

CAS: 1330-20-7

Density: 0.86

Relative Density: 0.861

Molecular Weight: 106.17

Boiling Point: 136.16

Vapour Pressure: 6.7

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 46. Limit: 0

FAD entered: 3; Lower Limit: 10

FAD 3 Quotient = 1.418

FAD 1 Quotient = 70.888

C14-C17 CHLORINATED HYDROCARBONS (3.83%)

CAS: 85535-85-9

Density: 1.21

Vapour Pressure: 0

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 0. Limit: 0

FAD entered: 1; Lower Limit: 0

FAD 1 Quotient = 3830

ETHYLBENZENE (3.7862557%)

Organic Solvent.

Carcinogen.

CAS: 100-41-4

Density: 0.866

Relative Density: 0.9

Molecular Weight: 106.18

Boiling Point: 136.1

Vapour Pressure: 9.30076

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 46. Limit: 0

FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.

FAD 3 Quotient = 0.379

ARYLIDE PIGMENT YELLOW 74 (3.70443%)

CAS: 6358-31-2

Density: 1.43

Molecular Weight: 386.36

Vapour Pressure: 0

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 0. Limit: 0

FAD entered: 1; Lower Limit: 0.1

FAD 1 Quotient = 37.044

C.I. PIGMENT RED 170 (1.04439297%)

CAS: 2786-76-7

Density: 1.408

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 0. Limit: 0

FAD entered: 1; Lower Limit: 0.1

FAD 1 Quotient = 10.444

IRON HYDROXIDE OXIDE (1.013%)

CAS: 51274-00-1

Density: 4.26

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 0. Limit: 0

FAD entered: 1; Lower Limit: 0.1

FAD 1 Quotient = 10.13

12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine (0.744%)

CAS: 220926-97-6

Density: 1.02

Vapour Pressure: 0.000326

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor from OEL: 0

R Phrases: Xn;R20

FAD: 1. (Default)

FAD 1 Quotient = 744

QUATERN.AM.CPS,BIS(HYDROGEN.TALLOW ALKYL)DIMET.-,BENTONITE (0.58206%)

CAS: 68953-58-2

Density: 1.7

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 0. Limit: 0

FAD entered: 1; Lower Limit: 0.1

FAD 1 Quotient = 5.821

TITANIUM DIOXIDE (0.565200444%)

CAS: 13463-67-7

Density: 4.1

Relative Density: 4.26

Molecular Weight: 79.9

Boiling Point: 2750

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 0. Limit: 0

FAD entered: 1; Lower Limit: 0

FAD 1 Quotient = 565.200

cyclohexanone (0.3972%)

Organic Solvent.

CAS: 108-94-1

Density: 0.946

Relative Density: 0.95

Molecular Weight: 98.14

Boiling Point: 154.3

Vapour Pressure: 3.75

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 70. Limit: 0

FAD entered: 1; Lower Limit: 0

FAD 1 Quotient = 397.2

ETHYL ALCOHOL (0.28498875%)

Organic Solvent.

CAS: 64-17-5

Density: 0.786

Relative Density: 0.8

Molecular Weight: 46.08

Boiling Point: 78.29

Vapour Pressure: 42.94865

LBLFactor = 200 (CAS=64175)

MAL Factor entered: 7. Limit: 0

FAD entered: 1; Lower Limit: 0

FAD 1 Quotient = 284.989

ALUMINUM SILICATE (0.095475%)

CAS: 1332-58-7

Density: 2.6

Relative Density: 2.6

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 0. Limit: 0

FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.

FAD 1 Quotient = 0.955
TOLUENE (0.072075044%)
Organic Solvent.
CAS: 108-88-3
Density: 0.87
Relative Density: 0.87
Molecular Weight: 92.14
Boiling Point: 110.6
Vapour Pressure: 23.17
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 74. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 3 Quotient = 0.007

BLOCKED COPOLYMER (0.0585%)
CAS: SUB100054
Density: 1
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 0. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 1 Quotient = 0.585

non-hazardous polymer (0.056%)
CAS: SUB137438
Density: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 56

ALUMINUM HYDROXIDE (0.02121%)
CAS: 21645-51-2
Density: 2.42
Molecular Weight: 78
Vapour Pressure: 0.0675
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 0. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 1 Quotient = 0.212

[1R-(1 α ,4 α β ,10 α)]-1,2,3,4,4a,9,10,10a-octahydro-7-isopropyl-1,4a-dimethylphenanthren-1-carboxylic acid (0.019095%)
CAS: 1740-19-8
Density: 0
Molecular Weight: 300.48
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 19.095

1-METHOXY-2-PROPYL ACETATE (0.016574090887%)
Organic Solvent.
CAS: 108-65-6
Density: 0.962

Relative Density: 0.96
Molecular Weight: 132.18
Boiling Point: 145.8
Vapour Pressure: 2.7
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 19. Limit: 0
FAD entered: 1; Lower Limit: 0
FAD 1 Quotient = 16.574

N-BUTYL ACETATE (0.0156091%)

Organic Solvent.
CAS: 123-86-4
Density: 0.881
Relative Density: 0.88
Molecular Weight: 116.18
Boiling Point: 126
Vapour Pressure: 11.25096
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 14. Limit: 0
FAD entered: 1; Lower Limit: 0
FAD 1 Quotient = 15.609

METHYL ALCOHOL (0.01500007028%)

Organic Solvent.
CAS: 67-56-1
Density: 0.792
Relative Density: 0.79
Molecular Weight: 32.05
Boiling Point: 64.7
Vapour Pressure: 126.96329
LB�Factor = 100 (BP=64.7)
MAL Factor entered: 54. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 6 Quotient = 0.001
FAD 3 Quotient = 0.015

QUARTZ (>10 microns) (0.012%)

Carcinogen.
CAS: 14808-60-7
Density: 0
Relative Density: 2.6
Molecular Weight: 60.09
Boiling Point: 2230
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 0. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 1 Quotient = 0.12

QUARTZ (<10 microns) (0.00594%)

Carcinogen.
CAS: 14808-60-7
Density: 0

Relative Density: 2.6
Molecular Weight: 60.09
Boiling Point: 2230
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 0. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 6 Quotient = 0.001
FAD 3 Quotient = 0.006

TITANIUM DIOXIDE (<10 microns) (0.005651556%)

Carcinogen.
CAS: 13463-67-7
Density: 4.1
Relative Density: 4.26
Molecular Weight: 79.9
Boiling Point: 2750
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 0. Limit: 0
FAD entered: 1; Lower Limit: 0
FAD 1 Quotient = 5.652

TRIMETHYLOLPROPANE (0.004848%)

CAS: 77-99-6
Density: 1.084
Molecular Weight: 134.2
Boiling Point: 304.2
Vapour Pressure: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 0. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 1 Quotient = 0.048

SILICA (0.004242%)

CAS: 7631-86-9
Density: 2
Relative Density: 2.2
Molecular Weight: 60.08
Boiling Point: 2230
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 0. Limit: 0
R Phrases: None
FAD: 1. (Default)
FAD 1 Quotient = 4.242

WATER (0.003037589842%)

CAS: 7732-18-5
Density: 1
Molecular Weight: 18.02
Boiling Point: 100
Vapour Pressure: 17.5
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 0. Limit: 0

FAD entered: 0; Lower Limit: 0
Siloxanes and Silicones, methyl 3,3,3-trifluoropropyl (0.0027996%)
CAS: 63148-56-1
Density: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 2.800
BENZENE (0.002684641%)
Organic Solvent.
Carcinogen.
CAS: 71-43-2
Density: 0.877
Relative Density: 0.88
Molecular Weight: 78.12
Boiling Point: 80.09
Vapour Pressure: 75.00609
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 880. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 6 Quotient = 0.027
2'-ethoxy-3-hydroxy-2-naphthanilide (0.00260703%)
CAS: 92-74-0
Density: 0.53
Molecular Weight: 307.34
Vapour Pressure: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
R Phrases: N;R50/53
MAL Factor from Sub-Annex 2: 0
FAD: 1. (Default)
FAD 1 Quotient = 2.607
ZIRCONIUM OXIDE (0.001818%)
CAS: 1314-23-4
Density: 5.85
Molecular Weight: 123.22
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 0. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 1 Quotient = 0.018
SUBSTITUTED AMIDE (0.0002932631%)
CAS: 82199-12-0
Density: 1.444
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 0. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 1 Quotient = 0.003
acrylic copolymer (0.00028112%)
CAS: SUB110897

Density: 1.09

No LBL Factor entered or estimated from CAS Number or Boiling Point.

No MAL Factor calculated.

FAD: 1. (Default)

FAD 1 Quotient = 0.281

2-METHOXY-1-PROPYL ACETATE (0.000130007228%)

Organic Solvent.

CAS: 70657-70-4

Density: 0.97

Molecular Weight: 132.18

Boiling Point: 150.5

Vapour Pressure: 2.9

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 181. Limit: 0

FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.

FAD 6 Quotient = 0.001

organotin compound (0.0001287%)

CAS: SUB143296

Density: 0

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor from OEL: 0

R Phrases: None

FAD: 1. (Default)

FAD 1 Quotient = 0.129

BLOCK COPOLYMER (0.0000338%)

CAS: SUB101356

Density: 1.1

No LBL Factor entered or estimated from CAS Number or Boiling Point.

No MAL Factor calculated.

FAD: 1. (Default)

FAD 1 Quotient = 0.034

CUMENE (0.000026%)

Organic Solvent.

CAS: 98-82-8

Density: 0.86

Relative Density: 0.9

Molecular Weight: 120.21

Boiling Point: 152

Vapour Pressure: 3.72032

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 1. Limit: 0

FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.

FAD 3 Quotient = 0.000

DIMETHYL GLUTARATE (0.00002350866%)

CAS: 1119-40-0

Density: 1.09

Molecular Weight: 160.17

Boiling Point: 216

Vapour Pressure: 0.062

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 4. Limit: 0

FAD entered: 1; Lower Limit: 0

FAD 1 Quotient = 0.024

Talc, non-asbestos form (0.00001519%)

CAS: 14807-96-6

Density: 2.7

Relative Density: 2.7

Molecular Weight: 96.33

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 0. Limit: 0

FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.

FAD 1 Quotient = 0.000

DIMETHYL SUCCINATE (0.00000804706%)

CAS: 106-65-0

Density: 1.119

Molecular Weight: 146.16

Boiling Point: 196.2

Vapour Pressure: 0.18

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 5. Limit: 0

FAD entered: 1; Lower Limit: 0

FAD 1 Quotient = 0.008

DIMETHYL ADIPATE (0.00000349643%)

CAS: 627-93-0

Density: 1.062

Molecular Weight: 174.22

Boiling Point: 230.9

Vapour Pressure: 0.021

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 0. Limit: 0

FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.

FAD 1 Quotient = 0.000

DENATONIUM BENZOATE (0.00000285%)

CAS: 3734-33-6

Density: 0

Molecular Weight: 446.59

No LBL Factor entered or estimated from CAS Number or Boiling Point.

No MAL Factor calculated.

FAD: 1. (Default)

FAD 1 Quotient = 0.003

METHYL METHACRYLATE (0.000002509498%)

Organic Solvent.

CAS: 80-62-6

Density: 0.94

Relative Density: 0.94

Molecular Weight: 100.13

Boiling Point: 100.36
Vapour Pressure: 27.75236
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 46. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 5 Quotient = 0.000
FAD 3 Quotient = 0.000

polymer (0.000001519%)

CAS: SUB140228
Density: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 0.002

2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- (0.000001204298%)

CAS: 7534-94-3
Density: 0.983
Molecular Weight: 222.33
Boiling Point: 275
Vapour Pressure: 0.009
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 0. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 5 Quotient = 0.000
FAD 3 Quotient = 0.000

N-BUTYL METHACRYLATE (0.000001192752%)

Organic Solvent.
CAS: 97-88-1
Density: 0.89
Relative Density: 0.9
Molecular Weight: 142.22
Boiling Point: 163
Vapour Pressure: 1.59014
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 16. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 5 Quotient = 0.000

ACETIC ACID (0.000000472675%)

Organic Solvent.
CAS: 64-19-7
Density: 1.04
Relative Density: 1.05
Molecular Weight: 60.06
Boiling Point: 117.9
Vapour Pressure: 15.59383
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 400. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.

FAD 4 Quotient = 0.000

FAD 3 Quotient = 0.000

ACETONE (0.00000045%)

Organic Solvent.

CAS: 67-64-1

Density: 0.791

Relative Density: 0.8

Molecular Weight: 58.09

Boiling Point: 56.05

Vapour Pressure: 180.01463

LBLFactor = 100 (BP=56.05)

MAL Factor entered: 23. Limit: 0

FAD entered: 1; Lower Limit: 0

FAD 1 Quotient = 0.000

OCTAMETHYLCYCLOTETRAILOXANE (0.0000004%)

CAS: 556-67-2

Density: 0.95

Relative Density: 0.96

Molecular Weight: 296.68

Boiling Point: 175

Vapour Pressure: 0.99008

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 1. Limit: 0

FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.

FAD 3 Quotient = 0.000

PROPYLENE GLYCOL MONOMETHYL ETHER (0.0000002902%)

Organic Solvent.

CAS: 107-98-2

Density: 0.92

Relative Density: 0.92

Molecular Weight: 90.14

Boiling Point: 120.17

Vapour Pressure: 8.5

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 28. Limit: 0

FAD entered: 1; Lower Limit: 0

FAD 1 Quotient = 0.000

2-TERT-BUTYLAMINOETHYL METHACRYLATE (0.0000001004%)

CAS: 3775-90-4

Density: 0.914

Relative Density: 0.9

Molecular Weight: 185.3

Boiling Point: 215

Vapour Pressure: 0.04

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 0. Limit: 0

FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.

FAD 3 Quotient = 0.000

FAD 5 Quotient = 0.000

2-methoxyaniline (0.0000000279%)

Organic Solvent.

Carcinogen.

CAS: 90-04-0

Density: 1.09

Relative Density: 1.1

Molecular Weight: 123.17

Boiling Point: 226.8

Vapour Pressure: 0.07501

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor from OEL: 40000 ** Warning: An Evaporation Rate Correction Factor of 2 was used. Contact the Authorities for a MAL Factor.

R Phrases: Xn;R22 Xn;R20

FAD: 1. (Default)

FAD 1 Quotient = 0.000

1-BUTANOL (0.0000000273%)

Organic Solvent.

CAS: 71-36-3

Density: 0.81

Relative Density: 0.81

Molecular Weight: 74.14

Boiling Point: 119

Vapour Pressure: 6.750576

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 67. Limit: 0

FAD entered: 1; Lower Limit: 0

FAD 1 Quotient = 0.000

ISOBUTYL METHACRYLATE (0.000000012048%)

Organic Solvent.

CAS: 97-86-9

Density: 0.88

Relative Density: 0.8858

Molecular Weight: 142.22

Boiling Point: 155

Vapour Pressure: 1.58263

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 1. Limit: 0

FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.

FAD 3 Quotient = 0.000

FAD 5 Quotient = 0.000

BUTYLATED HYDROXYTOLUENE (0.00000009225%)

CAS: 128-37-0

Density: 1.03

Relative Density: 1.048

Molecular Weight: 220.39

Boiling Point: 265

Vapour Pressure: 0.00825

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 0. Limit: 0

FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.

FAD 3 Quotient = 0.000

TIN (0.000000000715%)

CAS: 7440-31-5

Density: 7.2

Relative Density: 7.28

Molecular Weight: 118.69

Boiling Point: 2260

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor from OEL: 0

R Phrases: None

FAD: 1. (Default)

FAD 1 Quotient = 0.000

4-METHOXYPHENOL (0.000000000502%)

CAS: 150-76-5

Density: 1.6

Relative Density: 1.55

Molecular Weight: 124.15

Boiling Point: 243

Vapour Pressure: 0.00675

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 0. Limit: 0

FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.

FAD 5 Quotient = 0.000

Density = 0.984. Entered value.

Figure-before-the dash = 5

Hydrocarbons, C9, aromatics (@41.55%). MAL Factor = 58. Total increased by $41.55 \times 58 = 2410.08$. Running Total = 2410.08

XYLENES(@14.18%). MAL Factor = 46. Total increased by $14.18 \times 46 = 652.17$. Running Total = 3062.25

C14-C17 CHLORINATED HYDROCARBONS(@3.83%). MAL Factor = 0. Total increased by $3.83 \times 0 = 0$. Running Total = 3062.25

ETHYLBENZENE(@3.79%). MAL Factor = 46. Total increased by $3.79 \times 46 = 174.17$. Running Total = 3236.42

ARYLIDE PIGMENT YELLOW 74(@3.70%). MAL Factor = 0. Total increased by $3.70 \times 0 = 0$. Running Total = 3236.42

C.I. PIGMENT RED 170(@1.04%). MAL Factor = 0. Total increased by $1.04 \times 0 = 0$. Running Total = 3236.42

IRON HYDROXIDE OXIDE(@1.01%). MAL Factor = 0. Total increased by $1.01 \times 0 = 0$. Running Total = 3236.42

12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine(@0.74%). MAL Factor = 0. Total increased by $0.74 \times 0 = 0.00$.

Running Total = 3236.42

QUATERN.AM.CPS,BIS(HYDROGEN.TALLOW ALKYL)DIMET.-,BENTONITE(@0.58%). MAL Factor = 0. Total increased by $0.58 \times 0 = 0$. Running Total = 3236.42

TITANIUM DIOXIDE(@0.57%). MAL Factor = 0. Total increased by $0.57 \times 0 = 0$. Running Total = 3236.42

cyclohexanone(@0.40%). MAL Factor = 70. Total increased by $0.40 \times 70 = 27.80$. Running Total = 3264.22

ETHYL ALCOHOL(@0.28%). MAL Factor = 7. Total increased by $0.28 \times 7 = 1.99$. Running Total = 3266.22

ALUMINUM SILICATE(@0.10%). MAL Factor = 0. Total increased by $0.10 \times 0 = 0$. Running Total = 3266.22

TOLUENE(@0.07%). MAL Factor = 74. Total increased by $0.07 \times 74 = 5.33$. Running Total = 3271.55

BLOCKED COPOLYMER(@0.06%). MAL Factor = 0. Total increased by $0.06 \times 0 = 0$. Running Total = 3271.55

ALUMINUM HYDROXIDE(@0.02%). MAL Factor = 0. Total increased by $0.02 \times 0 = 0$. Running Total = 3271.55

1-METHOXY-2-PROPYL ACETATE(@0.02%). MAL Factor = 19. Total increased by $0.02 \times 19 = 0.31$. Running Total = 3271.87

N-BUTYL ACETATE(@0.02%). MAL Factor = 14. Total increased by $0.02 \times 14 = 0.22$. Running Total = 3272.09

METHYL ALCOHOL(@0.02%). MAL Factor = 54. Total increased by $0.02 \times 54 = 0.81$. Running Total = 3272.90

QUARTZ (>10 microns)(@0.01%). MAL Factor = 0. Total increased by $0.01 \times 0 = 0$. Running Total = 3272.90

QUARTZ (<10 microns)(@0.01%). MAL Factor = 0. Total increased by 0.01*0=0. Running Total = 3272.90
TITANIUM DIOXIDE (<10 microns)(@0.01%). MAL Factor = 0. Total increased by 0.01*0=0. Running Total = 3272.90
TRIMETHYLOLPROPANE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3272.90
SILICA(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3272.90
WATER(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3272.90
BENZENE(@0.00%). MAL Factor = 880. Total increased by 0.00*880=2.36. Running Total = 3275.26
2'-ethoxy-3-hydroxy-2-naphthanilide(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0.00. Running Total = 3275.26
ZIRCONIUM OXIDE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3275.26
SUBSTITUTED AMIDE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3275.26
2-METHOXY-1-PROPYL ACETATE(@0.00%). MAL Factor = 181. Total increased by 0.00*181=0.02. Running Total = 3275.28
organotin compound(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0.00. Running Total = 3275.28
CUMENE(@0.00%). MAL Factor = 1. Total increased by 0.00*1=0.00. Running Total = 3275.28
DIMETHYL GLUTARATE(@0.00%). MAL Factor = 4. Total increased by 0.00*4=0.00. Running Total = 3275.28
Talc, non-asbestos form(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3275.28
DIMETHYL SUCCINATE(@0.00%). MAL Factor = 5. Total increased by 0.00*5=0.00. Running Total = 3275.28
DIMETHYL ADIPATE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3275.28
METHYL METHACRYLATE(@0.00%). MAL Factor = 46. Total increased by 0.00*46=0.00. Running Total = 3275.28
2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3275.28
N-BUTYL METHACRYLATE(@0.00%). MAL Factor = 16. Total increased by 0.00*16=0.00. Running Total = 3275.28
ACETIC ACID(@0.00%). MAL Factor = 400. Total increased by 0.00*400=0.00. Running Total = 3275.28
ACETONE(@0.00%). MAL Factor = 23. Total increased by 0.00*23=0.00. Running Total = 3275.28
OCTAMETHYLCYCLOTETRASILOXANE(@0.00%). MAL Factor = 1. Total increased by 0.00*1=0.00. Running Total = 3275.28
PROPYLENE GLYCOL MONOMETHYL ETHER(@0.00%). MAL Factor = 28. Total increased by 0.00*28=0.00. Running Total = 3275.28
2-TERT-BUTYLAMINOETHYL METHACRYLATE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3275.28
2-methoxyaniline(@0.00%). MAL Factor = 40000. Total increased by 0.00*40000=0.00. Running Total = 3275.28
1-BUTANOL(@0.00%). MAL Factor = 67. Total increased by 0.00*67=0.00. Running Total = 3275.28
ISOBUTYL METHACRYLATE(@0.00%). MAL Factor = 1. Total increased by 0.00*1=0.00. Running Total = 3275.28
BUTYLATED HYDROXYTOLUENE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3275.28
TIN(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0.00. Running Total = 3275.28
4-METHOXYPHENOL(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3275.28
Figure-before-the-dash calculated as 5. Via MAL Factor Total * Density (3275.28 * 0.984) giving a MAL Number of 3223

MAL Number = Density (0.984) * Sum (3275.28) = 3223

Figure-after-the-dash = 3. Calculated from component data.

Hydrocarbons, C9, aromatics (@41.55%) Increasing Total for FAD1 by 415.53149, giving 415.53149

acrylic resin (@27.90%) Increasing Total for FAD1 by 27901.59, giving 28317.12149

XYLENES (@14.18%) Increasing Total for FAD3 by 1.4177612215, giving 1.4177612215

XYLENES (@14.18%) Increasing Total for FAD1 by 70.888061075, giving 28388.009551075

C14-C17 CHLORINATED HYDROCARBONS (@3.83%) Increasing Total for FAD1 by 3830, giving 32218.009551075

ETHYLBENZENE (@3.79%) Increasing Total for FAD3 by 0.37862557, giving 1.7963867915

ARYLIDE PIGMENT YELLOW 74 (@3.70%) Increasing Total for FAD1 by 37.0443, giving 32255.053851075

C.I. PIGMENT RED 170 (@1.04%) Increasing Total for FAD1 by 10.4439297, giving 32265.497780775

IRON HYDROXIDE OXIDE (@1.01%) Increasing Total for FAD1 by 10.13, giving 32275.627780775

12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine (@0.74%) Increasing Total for FAD1 by 744, giving 33019.627780775

QUATERN.AM.CPS,BIS(HYDROGEN.TALLOW ALKYL)DIMET.-,BENTONITE (@0.58%) Increasing Total for FAD1 by 5.8206, giving 33025.448380775

TITANIUM DIOXIDE (@0.57%) Increasing Total for FAD1 by 565.200444, giving 33590.648824775

cyclohexanone (@0.40%) Increasing Total for FAD1 by 397.2, giving 33987.848824775

ETHYL ALCOHOL (@0.28%) Increasing Total for FAD1 by 284.98875, giving 34272.837574775

ALUMINUM SILICATE (@0.10%) Increasing Total for FAD1 by 0.95475, giving 34273.792324775
TOLUENE (@0.07%) Increasing Total for FAD3 by 0.0072075044, giving 1.8035942959
BLOCKED COPOLYMER (@0.06%) Increasing Total for FAD1 by 0.585, giving 34274.377324775
non-hazardous polymer (@0.06%) Increasing Total for FAD1 by 56, giving 34330.377324775
ALUMINUM HYDROXIDE (@0.02%) Increasing Total for FAD1 by 0.2121, giving 34330.589424775
[1R-(1 α ,4 α β ,10 α)]-1,2,3,4,4a,9,10,10a-octahydro-7-isopropyl-1,4a-dimethylphenanthren-1-carboxylic acid (@0.02%) Increasing Total for FAD1 by 19.095, giving 34349.684424775
1-METHOXY-2-PROPYL ACETATE (@0.02%) Increasing Total for FAD1 by 16.574090887, giving 34366.258515662
N-BUTYL ACETATE (@0.02%) Increasing Total for FAD1 by 15.6091, giving 34381.867615662
METHYL ALCOHOL (@0.02%) Increasing Total for FAD6 by 0.000750003514, giving 0.000750003514
METHYL ALCOHOL (@0.02%) Increasing Total for FAD3 by 0.01500007028, giving 1.81859436618
QUARTZ (>10 microns) (@0.01%) Increasing Total for FAD1 by 0.12, giving 34381.987615662
QUARTZ (<10 microns) (@0.01%) Increasing Total for FAD6 by 0.000594, giving 0.001344003514
QUARTZ (<10 microns) (@0.01%) Increasing Total for FAD3 by 0.00594, giving 1.82453436618
TITANIUM DIOXIDE (<10 microns) (@0.01%) Increasing Total for FAD1 by 5.651556, giving 34387.639171662
TRIMETHYLOLPROPANE (@0.00%) Increasing Total for FAD1 by 0.04848, giving 34387.687651662
SILICA (@0.00%) Increasing Total for FAD1 by 4.242, giving 34391.929651662
Siloxanes and Silicones, methyl 3,3,3-trifluoropropyl (@0.00%) Increasing Total for FAD1 by 2.7996, giving 34394.729251662
BENZENE (@0.00%) Increasing Total for FAD6 by 0.02684641, giving 0.028190413514
2'-ethoxy-3-hydroxy-2-naphthanilide (@0.00%) Increasing Total for FAD1 by 2.60703, giving 34397.336281662
ZIRCONIUM OXIDE (@0.00%) Increasing Total for FAD1 by 0.01818, giving 34397.354461662
SUBSTITUTED AMIDE (@0.00%) Increasing Total for FAD1 by 0.002932631, giving 34397.357394293
acrylic copolymer (@0.00%) Increasing Total for FAD1 by 0.28112, giving 34397.638514293
2-METHOXY-1-PROPYL ACETATE (@0.00%) Increasing Total for FAD6 by 0.00065003614, giving 0.028840449654
organotin compound (@0.00%) Increasing Total for FAD1 by 0.1287, giving 34397.767214293
BLOCK COPOLYMER (@0.00%) Increasing Total for FAD1 by 0.0338, giving 34397.801014293
CUMENE (@0.00%) Increasing Total for FAD3 by 0.000026, giving 1.82456036618
DIMETHYL GLUTARATE (@0.00%) Increasing Total for FAD1 by 0.02350866, giving 34397.824522953
Talc, non-asbestos form (@0.00%) Increasing Total for FAD1 by 0.0001519, giving 34397.824674853
DIMETHYL SUCCINATE (@0.00%) Increasing Total for FAD1 by 0.00804706, giving 34397.832721913
DIMETHYL ADIPATE (@0.00%) Increasing Total for FAD1 by 0.0000349643, giving 34397.8327568773
DENATONIUM BENZOATE (@0.00%) Increasing Total for FAD1 by 0.00285, giving 34397.8356068773
METHYL METHACRYLATE (@0.000002509498%) Increasing Total for FAD5 by 0.0000005018996, giving 0.0000005018996
METHYL METHACRYLATE (@0.00%) Increasing Total for FAD3 by 0.000002509498, giving 1.824562875678
polymer (@0.00%) Increasing Total for FAD1 by 0.001519, giving 34397.8371258773
2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- (@0.000001204298%) Increasing Total for FAD5 by 0.0000002408596, giving 0.0000007427592
2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- (@0.00%) Increasing Total for FAD3 by 0.000001204298, giving 1.824564079976
N-BUTYL METHACRYLATE (@0.000001192752%) Increasing Total for FAD5 by 0.000001192752, giving 0.0000019355112
ACETIC ACID (@0.00%) Increasing Total for FAD4 by 0.000000018907, giving 0.000000018907
ACETIC ACID (@0.00%) Increasing Total for FAD3 by 0.0000000472675, giving 1.8245641272435
ACETONE (@0.00%) Increasing Total for FAD1 by 0.00045, giving 34397.8375758773
OCTAMETHYLCYCLOTETRAILOXANE (@0.00%) Increasing Total for FAD3 by 0.0000004, giving 1.8245645272435
PROPYLENE GLYCOL MONOMETHYL ETHER (@0.00%) Increasing Total for FAD1 by 0.0002902, giving 34397.8378660773
2-TERT-BUTYLAMINOETHYL METHACRYLATE (@0.0000001004%) Increasing Total for FAD5 by 0.00000002008, giving 0.0000019555912
2-TERT-BUTYLAMINOETHYL METHACRYLATE (@0.00%) Increasing Total for FAD3 by 0.0000001004, giving 1.8245646276435
2-methoxyaniline (@0.00%) Increasing Total for FAD1 by 0.0000279, giving 34397.8378939773
1-BUTANOL (@0.00%) Increasing Total for FAD1 by 0.0000273, giving 34397.8379212773

ISOBUTYL METHACRYLATE (@0.00000012048%) Increasing Total for FAD5 by 0.000000024096, giving 0.000019580008

ISOBUTYL METHACRYLATE (@0.00%) Increasing Total for FAD3 by 0.00000012048, giving 1.8245646396915

BUTYLATED HYDROXYTOLUENE (@0.00%) Increasing Total for FAD3 by 0.000000009225, giving 1.8245646406140

TIN (@0.00%) Increasing Total for FAD1 by 0.000000715, giving 34397.8379219923

4-METHOXYPHENOL (@0.00000000502%) Increasing Total for FAD5 by 0.00000000502, giving 0.000019585028

Figure-after-the-dash =3. Total of components with FAD=3 is >=1.

Low Boiling Liquid = False.

ETHYL ALCOHOL (@0.28%) Total increased by $0.28 \cdot 7 / 200 = 0.01$. Running Total = 0.01

METHYL ALCOHOL (@0.02%) Total increased by $0.02 \cdot 54 / 100 = 0.01$. Running Total = 0.02

ACETONE (@0.00%) Total increased by $0.00 \cdot 23 / 100 = 0.00$. Running Total = 0.02

Density * (Sum of components Concentration * MALFactor/LBLFactor) = 0.02

Recommended Usage Temperature is < 40C, hence no MAL Code in use is assigned.

Audit - RFU MAL Code

EU Denmark RFU MAL Code:-

Nothing was found

New Fields for IA3.3

MAL-code : 5-3

MAL Number : 222.88

MAL Number (RFU) : Not applicable.

Protection based on MAL : **According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:**

General: Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 5-3

Application: When spraying in new* booths if the operator is outside the spray zone. During non-atomizing spraying in existing* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

- Air-supplied full mask must be worn.

When using scraper or knife, brush, roller, etc. for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone. During downtimes, cleaning and repair of closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.

- Air-supplied full mask and coveralls must be worn.

When spraying in existing* spray booths, if the operator is outside the spray zone.

- Air-supplied full mask, arm protectors and apron must be worn.

During all spraying where atomization occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Air-supplied full mask, coveralls and hood must be worn.

Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc. must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

Caution The regulations contain other stipulations in addition to the above.

*See Regulations.

Protection based on R-F-U MAL : Not available.

Not available.

Not available.